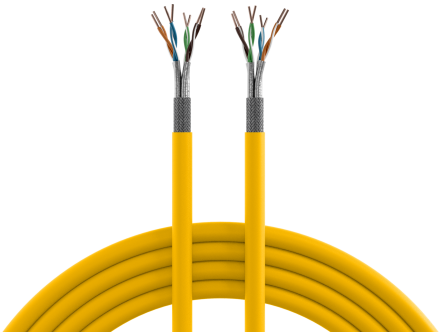
DATASHEET

INFRALAN® Cat.7A 1250 AWG23 S/FTP 4P CPR Cca rape yellow RAL1021, 100m





General data

The halogen-free Cat.7A S/FTP data cable in rapeseed yellow is designed for high-performance network installations. The S/FTP design with FRNC-B sheath supports stable data connections up to 1250 MHz and is therefore suitable for modern installations with high bandwidth.

• 1250 MHz Cat.7A bandwidth – Supports transmission standards from IEEE 802.3 10Mbit to 10Gbit and creates scope for high-performance networks.
• S/FTP design with braid shielding – Reduces interference and supports stable signal quality in demanding cabling.
• FRNC-B jacket in rapeseed yellow with RAL 1021 and Euroclass Cca – Is halogen-free according to EN 60754-1/2, complies with RoHS 2011/65/UE and complements the installation with a contemporary choice of materials.

The cable is designed as a simplex and uses 23/1 conductors with 8 wires. The dynamic bending radius of 60 mm facilitates installation. The braided shielding supports decoupling from external influences and the structure is intended for PoE according to IEEE802.3af, PoE+ according to IEEE802.3at and 4PPoE according to IEEE802.3bt. The version without reinforcement is aimed at laying in structured network environments.

Technical details
• Brand: INFRALAN
• Category: 7A

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- Transmission standards: IEEE 802.3 10Mbit to 10Gbit
- Max. frequency: 1250 MHz
- Cable construction: S/FTP
- PoE: after IEEE802.3af PoE, after IEEE802.3at PoE+, after IEEE802.3bt 4PPoE
- AWG cross-section/number of wires: 23/1
- Number of cores: 8
- Type: simplex
- Sheath material: FRNC-B
- Sheath colour: rapeseed yellow
- RAL colour: RAL 1021
- Armour: without
- Bend radius (dynamic): 60 mm
- Directive/Regulation: RoHS 2011/65/UE
- Euroclass: Cca
- Halogen-free: according to EN 60754-1/2
- Shield over stranding: braid

Technical properties	
AWG-size	23/1
Armour	none
Bending radius (dynamic)	60 mm
Cable	IEC 61156-6
Cable silicone free	True
Cable structure	S/FTP
Cable type	EFB Cat.7A S/FTP 1250 AWG23 Cca
Cabling standards	ISO/IEC 11801
Category	7A
Characteristic impedance	100 ± 5 Ohm
Conductor category	Class 1 = solid
Conductor material	Copper, tinned
Core identification	Colour
Core insulation	Foam-Skin-PE
Coupling attenuation	≥ 80 dB
Diameter conductor	0.56 mm
Directive/Regulation	RoHS 2011/65/UE
Euro class	Cca
Flame retardant	acc. to EN 60332-1
Halogen free	acc. to EN 60754-1/2
Harmonised Standard	EN 50575

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Installation standard	EN 50174
Insulation resistance (500V)	≥ 5000 MOhm/km
Loop resistance	140 Ohm/km
Low smoke	acc. to EN 61034
Material outer sheath	FRNC-B
Max. Freuqency	MHz MHz
NVP value	78 %
Operating capacity	43 pF/km
Operating temperature, fix	-20 – 60 °C
Operating temperature, flexible	0 – 50 °C
Operating temperature, storage	-20 – 75 °C
PoE	acc. to IEEE802.3af PoE
Resistance unbalance	2 %
Screen over stranding	braiding
Screen over stranding element	Foil
Separation class acc. EN50174-2	D
Stranding element	Pairs
Test voltage DC, 1 min	1000 V
Transmission standards	IEEE 802.3 10Mbit bis 10Gbit
UV resistant	no

Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length	Number of cores	RAL colour	Type	Copper weight	Weight	Max. tractive force	Outer diameter approx.	Fire load
99985.1-CPR	INFRALAN® Cat.7A 1250 AWG23 S/FTP 4P CPR Cca rape yellow RAL1021	Colza yellow	1.0 m	8	RAL 1021	simplex	32 kg/km	62 kg/km	95 N	7.7 mm	640 MJ/m
99985.100-CPR	INFRALAN® Cat.7A 1250 AWG23 S/FTP 4P CPR Cca rape yellow RAL1021, 100m	Colza yellow	100.0 m	8	RAL 1021	simplex	32 kg/km	62 kg/km	95 N	7.7 mm	640 MJ/km

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Note on Intended Use

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.

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